

AMENDMENTS TO THE CLAIMS

1. (canceled)

2. (new) An electrochromic device, comprising:

(a) a first substantially transparent substrate having an electrically conductive material associated therewith;

(b) a second substrate having an electrically conductive material associated therewith;

(c) an electrochromic medium contained within a chamber positioned between the first and second substrates which comprises:

(1) a solvent;

(2) a cathodic electroactive material;

(3) an anodic electroactive material, wherein at least one of the anodic and cathodic electroactive materials is electrochromic;

(4) a color-stabilizing additive; and

(5) wherein the electrochromic medium comprises a cross-linked polymer matrix;
and

(d) wherein the electrochromic device exhibits an absolute value of Δb^* of less than 10.00 after being exposed to 85 degrees centigrade for approximately 4,300 hours.

3. (new) The electrochromic device according to claim 2, wherein the electrochromic device exhibits an absolute value of Δb^* of less than 5.00 after being exposed to 85 degrees centigrade for approximately 4,300 hours.

4. (new) The electrochromic device according to claim 2, wherein the electrochromic device exhibits an absolute value of Δb^* of less than 1.00 after being exposed to 85 degrees centigrade for approximately 4,300 hours.

5. (new) The electrochromic device according to claim 2, wherein the device is an electrochromic window.

6. (new) The electrochromic device according to claim 2, wherein the second substrate is coated with a reflective material.

7. (new) The electrochromic device according to claim 6, wherein the device is an electrochromic mirror.

8. (new) The electrochromic device according to claim 2, wherein a first surface of the second substrate is coated with a reflective material.

9. (new) The electrochromic device according to claim 8, wherein the device is an electrochromic mirror.

10. (new) An electrochromic device, comprising:

(a) a first substantially transparent substrate having an electrically conductive material associated therewith;

(b) a second substrate having an electrically conductive material associated therewith;

(c) an electrochromic medium contained within a chamber positioned between the first and second substrates which comprises:

- (1) a solvent;
 - (2) a cathodic electroactive material;
 - (3) an anodic electroactive material, wherein at least one of the anodic and cathodic electroactive materials is electrochromic;
 - (4) a color-stabilizing additive; and
 - (5) wherein the electrochromic medium comprises a cross-linked polymer matrix;
- and

(d) wherein the electrochromic device exhibits an absolute value of ΔE of less than 10.00 after being exposed to 85 degrees centigrade for approximately 4,300 hours.

11. (new) The electrochromic device according to claim 10, wherein the electrochromic device exhibits an absolute value of ΔE of less than 5.00 after being exposed to 85 degrees centigrade for approximately 4,300 hours.

12. (new) The electrochromic device according to claim 10, wherein the electrochromic device exhibits an absolute value of ΔE of less than 2.00 after being exposed to 85 degrees centigrade for approximately 4,300 hours.

13. (new) The electrochromic device according to claim 10, wherein the device is an electrochromic window.

14. (new) The electrochromic device according to claim 10, wherein the second substrate is coated with a reflective material.

15. (new) The electrochromic device according to claim 14, wherein the device is an electrochromic mirror.

16. (new) The electrochromic device according to claim 10, wherein a first surface of the second substrate is coated with a reflective material.

17. (new) The electrochromic device according to claim 16, wherein the device is an electrochromic mirror.

18. (new) An electrochromic device, comprising:

(a) a first substantially transparent substrate having an electrically conductive material associated therewith;

(b) a second substrate having an electrically conductive material associated therewith;

(c) an electrochromic medium contained within a chamber positioned between the first and second substrates which comprises:

(1) a solvent;

(2) a cathodic electroactive material;

(3) an anodic electroactive material, wherein at least one of the anodic and cathodic electroactive materials is electrochromic;

(4) a color-stabilizing additive; and

(5) wherein the electrochromic medium comprises a cross-linked polymer matrix;
and

(d) wherein the electrochromic device exhibits an absolute value of Δb^* of less than 6.00 after being exposed to ultraviolet radiation for approximately 2,000 hours while in a weatherometer.

19. (new) The electrochromic device according to claim 18, wherein the electrochromic device exhibits an absolute value of Δb^* of less than 5.00 after being exposed to ultraviolet radiation for approximately 2,000 hours while in a weatherometer.

20. (new) The electrochromic device according to claim 18, wherein the electrochromic device exhibits an absolute value of Δb^* of less than 2.00 after being exposed to ultraviolet radiation for approximately 2,000 hours while in a weatherometer.

21. (new) The electrochromic device according to claim 18, wherein the device is an electrochromic window.

22. (new) The electrochromic device according to claim 18, wherein the second substrate is coated with a reflective material.

23. (new) The electrochromic device according to claim 22, wherein the device is an electrochromic mirror.

24. (new) The electrochromic device according to claim 18, wherein a first surface of the second substrate is coated with a reflective material.

25. (new) The electrochromic device according to claim 24, wherein the device is an electrochromic mirror.

26. (new) An electrochromic device, comprising:

(a) a first substantially transparent substrate having an electrically conductive material associated therewith;

(b) a second substrate having an electrically conductive material associated therewith;

(c) an electrochromic medium contained within a chamber positioned between the first and second substrates which comprises:

(1) a solvent;

(2) a cathodic electroactive material;

(3) an anodic electroactive material, wherein at least one of the anodic and cathodic electroactive materials is electrochromic;

(4) a color-stabilizing additive; and

(5) wherein the electrochromic medium comprises a cross-linked polymer matrix;
and

(d) wherein the electrochromic device exhibits an absolute value of ΔE of less than 9.00 after being exposed to ultraviolet radiation for approximately 2,000 hours while in a weatherometer.

27. (new) The electrochromic device according to claim 26, wherein the electrochromic device exhibits an absolute value of ΔE of less than 5.00 after being exposed to ultraviolet radiation for approximately 2,000 hours while in a weatherometer.

28. (new) The electrochromic device according to claim 26, wherein the electrochromic device exhibits an absolute value of ΔE of less than 2.00 after being exposed to ultraviolet radiation for approximately 2,000 hours while in a weatherometer.

29. (new) The electrochromic device according to claim 26, wherein the device is an electrochromic window.

30. (new) The electrochromic device according to claim 26, wherein the second substrate is coated with a reflective material.

31. (new) The electrochromic device according to claim 30, wherein the device is an electrochromic mirror.

32. (new) The electrochromic device according to claim 26, wherein a first surface of the second substrate is coated with a reflective material.

33. (new) The electrochromic device according to claim 32, wherein the device is an electrochromic mirror.

34. (new) An electrochromic device, comprising:

(a) a first substantially transparent substrate having an electrically conductive material associated therewith;

(b) a second substrate having an electrically conductive material associated therewith;

(c) an electrochromic medium contained within a chamber positioned between the first and second substrates which comprises:

(1) a solvent;

(2) a cathodic electroactive material;

(3) an anodic electroactive material, wherein at least one of the anodic and cathodic electroactive materials is electrochromic;

(4) a color-stabilizing additive; and

(5) wherein the electrochromic medium comprises a cross-linked polymer matrix;
and

(d) wherein the electrochromic device exhibits an absolute value of Δb^* of less than 10.00 after being exposed to approximately 10,000 hours of ultraviolet radiation in a weatherometer while cycling, each cycle consisting of an electrical potential application of approximately 1.2V for 30 seconds and an electrical potential application of approximately 0.0V for 30 seconds.

35. (new) The electrochromic device according to claim 34, wherein the electrochromic device exhibits an absolute value of Δb^* of less than 5.00 after being exposed to approximately 10,000 hours of ultraviolet radiation in a weatherometer while cycling, each cycle consisting of an

electrical potential application of approximately 1.2V for 30 seconds and an electrical potential application of approximately 0.0V for 30 seconds.

36. (new) The electrochromic device according to claim 34, wherein the device is an electrochromic window.

37. (new) The electrochromic device according to claim 34, wherein the second substrate is coated with a reflective material.

38. (new) The electrochromic device according to claim 37, wherein the device is an electrochromic mirror.

39. (new) The electrochromic device according to claim 34, wherein a first surface of the second substrate is coated with a reflective material.

40. (new) The electrochromic device according to claim 39, wherein the device is an electrochromic mirror.

41. (new) An electrochromic device, comprising:

- (a) a first substantially transparent substrate having an electrically conductive material associated therewith;

- (b) a second substrate having an electrically conductive material associated therewith;

(c) an electrochromic medium contained within a chamber positioned between the first and second substrates which comprises:

(1) a solvent;

(2) a cathodic electroactive material;

(3) an anodic electroactive material, wherein at least one of the anodic and cathodic electroactive materials is electrochromic;

(4) a color-stabilizing additive; and

(5) wherein the electrochromic medium comprises a cross-linked polymer matrix;
and

(d) wherein the electrochromic device exhibits an absolute value of ΔE of less than 10.00 after being exposed to approximately 10,000 hours of ultraviolet radiation in a weatherometer while cycling, each cycle consisting of an electrical potential application of approximately 1.2V for 30 seconds and an electrical potential application of approximately 0.0V for 30 seconds.

42. (new) The electrochromic device according to claim 41, wherein the electrochromic device exhibits an absolute value of ΔE of less than 6.00 after being exposed to approximately 10,000 hours of ultraviolet radiation in a weatherometer while cycling, each cycle consisting of an electrical potential application of approximately 1.2V for 30 seconds and an electrical potential application of approximately 0.0V for 30 seconds.

43. (new) The electrochromic device according to claim 41, wherein the device is an electrochromic window.

44. (new) The electrochromic device according to claim 41, wherein the second substrate is coated with a reflective material.

45. (new) The electrochromic device according to claim 44, wherein the device is an electrochromic mirror.

46. (new) The electrochromic device according to claim 41, wherein a first surface of the second substrate is coated with a reflective material.

47. (new) The electrochromic device according to claim 46, wherein the device is an electrochromic mirror.

48. (new) An electrochromic device, comprising:

- (a) a first substantially transparent substrate having an electrically conductive material associated therewith;

- (b) a second substrate having an electrically conductive material associated therewith;

- (c) an electrochromic medium contained within a chamber positioned between the first and second substrates which comprises:

- (1) a solvent;

- (2) a cathodic electroactive material;

- (3) an anodic electroactive material, wherein at least one of the anodic and cathodic electroactive materials is electrochromic;

(4) a color-stabilizing additive; and

(5) wherein the electrochromic medium comprises a cross-linked polymer matrix;

and

(d) wherein the electrochromic device exhibits an absolute value of Δb^* of less than 10.00 after being exposed to approximately 6,300 hours of cycling at 70 degrees centigrade, each cycle consisting of an electrical potential application of approximately 1.2V for 30 seconds and an electrical potential application of approximately 0.0V for 30 seconds.

49. (new) The electrochromic device according to claim 48, wherein the electrochromic device exhibits an absolute value of Δb^* of less than 5.00 after being exposed to approximately 6,300 hours of cycling at 70 degrees centigrade, each cycle consisting of an electrical potential application of approximately 1.2V for 30 seconds and an electrical potential application of approximately 0.0V for 30 seconds.

50. (new) The electrochromic device according to claim 48, wherein the electrochromic device exhibits an absolute value of Δb^* of less than 1.00 after being exposed to approximately 6,300 hours of cycling at 70 degrees centigrade, each cycle consisting of an electrical potential application of approximately 1.2V for 30 seconds and an electrical potential application of approximately 0.0V for 30 seconds.

51. (new) The electrochromic device according to claim 48, wherein the device is an electrochromic window.

52. (new) The electrochromic device according to claim 48, wherein the second substrate is coated with a reflective material.

53. (new) The electrochromic device according to claim 52, wherein the device is an electrochromic mirror.

54. (new) The electrochromic device according to claim 48, wherein a first surface of the second substrate is coated with a reflective material.

55. (new) The electrochromic device according to claim 54, wherein the device is an electrochromic mirror.

56. (new) An electrochromic device, comprising:

- (a) a first substantially transparent substrate having an electrically conductive material associated therewith;

- (b) a second substrate having an electrically conductive material associated therewith;

- (c) an electrochromic medium contained within a chamber positioned between the first and second substrates which comprises:

- (1) a solvent;

- (2) a cathodic electroactive material;

- (3) an anodic electroactive material, wherein at least one of the anodic and cathodic electroactive materials is electrochromic;

(4) a color-stabilizing additive; and

(5) wherein the electrochromic medium comprises a cross-linked polymer matrix;
and

(d) wherein the electrochromic device exhibits an absolute value of ΔE of less than 10.00 after being exposed to approximately 6,300 hours of cycling at 70 degrees centigrade, each cycle consisting of an electrical potential application of approximately 1.2V for 30 seconds and an electrical potential application of approximately 0.0V for 30 seconds.

57. (new) The electrochromic device according to claim 56, wherein the electrochromic device exhibits an absolute value of ΔE of less than 5.00 after being exposed to approximately 6,300 hours of cycling at 70 degrees centigrade, each cycle consisting of an electrical potential application of approximately 1.2V for 30 seconds and an electrical potential application of approximately 0.0V for 30 seconds.

58. (new) The electrochromic device according to claim 56, wherein the electrochromic device exhibits an absolute value of ΔE of less than 2.00 after being exposed to approximately 6,300 hours of cycling at 70 degrees centigrade, each cycle consisting of an electrical potential application of approximately 1.2V for 30 seconds and an electrical potential application of approximately 0.0V for 30 seconds.

59. (new) The electrochromic device according to claim 56, wherein the device is an electrochromic window.

60. (new) The electrochromic device according to claim 56, wherein the second substrate is coated with a reflective material.

61. (new) The electrochromic device according to claim 60, wherein the device is an electrochromic mirror.

62. (new) The electrochromic device according to claim 56, wherein a first surface of the second substrate is coated with a reflective material.

63. (new) The electrochromic device according to claim 62, wherein the device is an electrochromic mirror.